UC San Diego
EXTENSION

UNCOVER THE FUTURE OF
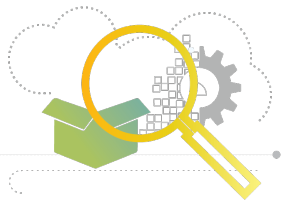# DIGITAL HEALTHCARE TECHNOLOGY

Specialized Certificate in Digital Health

Healthcare is Evolving

The era of healthcare disruption, innovation and transformation has arrived. Join the acceleration of Digital Health and take your professional training in healthcare technology to a new level. Explore key industry trends in emerging digital technologies, examine case studies, and new business models for the healthcare ecosystem. Learn about the Digital Health landscape and opportunities to generate new value for both consumers and organizations.

Frontier Technology

You will examine technology at the intersection of innovation and real-world implementation. Courses provide multidisciplinary training in data science, mHealth, Internet of Medical Things (IoMT), AI, regulatory, genomics, ethics, & behavioral medicine. Industry-leading skills to provide training for the next generation of digital tech leaders future of innovation Examine emerging frontier technologies, connected devices, health blockchain, AI, and engage in dynamic, applied learning activities. Digital badges can be earned to showcase specific skills and competencies.

California Healthcare Tech Startups & Life Sciences Ecosystem

Connect with external experts and real-world practitioners to identify trends and engage with the Digital Health startup community. Innovation and entrepreneurial focus to accelerate strategies for healthcare technology commercialization and business development. In 2018 U.S. Digital Health investment totaled $8.1B, up 42% from 2017. During this period California accounted for $3.6B of investments, increasing1.6B from 2017.

Specialized Certificate in Digital Health
Instructors A-Z

Leading academic and industry practitioners will help you navigate emerging technologies and the Digital Health industry

Daniel Haders II, PhD
Managing Director, Healthcare Tech, Nex Cubed
Instructor and Advisory Board

Bio: Dr. Haders has 20 years of experience as a scientist, entrepreneur, advisor & investor developing patented technologies, managing innovation teams, founding companies & advising/investing in startups. Dr. Haders is currently the Managing Director, Healthcare Tech at Nex Cubed a Frontier Technology Venture Studio and Seed Investor based in San Francisco, San Diego & Washington, D.C. He is also an Operating Partner at Sway Ventures, a US-based venture capital firm investing in early to mid stage technology companies and the Executive Chairman of Repurpose.ai, a virtual Pharmaceutical company utilizing Artificial Intelligence to discover new indications for "old" or "failed" drugs. In these roles he serves as a Senior Advisor to multiple emerging technology companies. These companies stretch geographically from New York to San Diego to Silicon Valley & across verticals including Connected

Hobson Lane, MA
Author & Chief Data Scientist
Mindcurrent
Instructor and Advisory Board

Bio: Hobson Lane, is a Data Scientist and has 20 years of experience building autonomous systems that contribute to the common good. Hobson is the holder of six patents, and earned his M.S. degree in Dynamics and Controls from Georgia Institute of Technology, and his B.S. in Physics and English from Vanderbilt University.   He is the author of technical papers and is a prolific lecturer in autonomous systems and machine learning.   Hobson is also the lead author of Natural Language Processing in Action, the definitive book on prosocial dialog systems. His course Data Science for Digital Health is the second course in the Digital Health certificate program incorporates aspects of statistical modeling, clinical data science, population health, Assistive Technology, and Ethics.

Tim K. Mackey, MAS, PhD
Director & Associate Professor
UCSD Extension/UCSD - School of Medicine
Course Director and Instructor

Bio: Tim is an Associate Professor of Anesthesiology and Global Public Health at UC San Diego School of Medicine and is also the Director of Healthcare Research and Policy at UC San Diego - Extension. He is also the Director of the Global Health Policy Institute. He has co-authored over 140 publications and has acted as a consultant for the World Health Organization, U.S. Department of State, and U.S. Department of Justice. He is also the co-Chair of the IEEE Standards Association Supply Chain. Technology Implementation Industry Connections Program. Tim presents, publishes and teaches courses on Health Blockchain, Global Health, Digital Health and contributes his expertise to variety of healthcare technology advisory boards.

Gina Merchant, PhD
Senior Behavioral Scientist
Medical Affairs Department, ResMed
Guest Instructor and Advisory Board

Bio: In her role as the Behavioral Science Strategist Dr. Merchant blends UX and behavioral design to create digital solutions that improve patient engagement in sleep disordered breathing and respiratory diseases. Dr. Merchant is a behavioral and data scientist with extensive experience working with technology to promote health behavior change. Her work spans small-scale and tightly controlled experiments to large clinical trials. Dr. Merchant is keen to adapt new study designs to pressing public health problems, and to bring the scientific method to the business arena. As a member of the R community, she is an advocate for advancing the cause of reproducible research in behavioral science, and increasing the presence and participation of women and other under-represented groups in data science. Ph.D. in Public Health from UC San Diego/San Diego State University, MA in Experimental Psychology from Cal State San Marcos, and BA in Psychology from UC San Diego.

Ramin Rafiei, PhD
Director of Technology
SHL Group
Guest Instructor

Bio: Ramin Rafiei, PhD, is Director of Technology at SHL Group, leading the organization's efforts in digital healthcare. His focus is the intersection of connected therapeutics, software and personalized care delivery with the aim of bridging the efficacy-to-effectiveness gap. Over the past two decades, Dr Rafiei has been leading high-stake multidisciplinary scientific and business initiatives globally across established industries such as aerospace and nuclear, as well as next-generation industries such as photonics, autonomous mobility and digital healthcare. Dr Rafiei is a healthcare investor, a healthtech advisor and a published author who holds a PhD in experimental nuclear physics from The Australian National University in Canberra, Australia.

Dawn Ta
UX Design Manager
ResMed
Guest Instructor

Bio: Dawn is currently a UX Manager at ResMed responsible for the user experience, research, and visual design of web and mobile products. She is a seasoned leader with over 15 years in the IT, marketing, and healthcare product development space. In the past few years, she has dedicated herself to mentoring UX design teams, advocating for user-centered design within organizations, and collaborating closely with multidisciplinary, agile teams to develop useful and usable products.

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